



## Information for Contributors

vii

## Reviews

## Mammalian lysophospholipases

A. Wang and E.A. Dennis (USA)

1

## Use of sphingolipid analogs: benefits and risks

R. Ghidoni, G. Sala and A. Giuliani (France, Italy)

17

## Regular papers

## Microsomal long-chain acyl-CoA thioesterase (carboxylesterase ES-4) is regulated by thyroxine

M.A. Diczfalussy, U. Andersson, I. Björkhem, C. Einarsson and S.E.H. Alexson (Sweden)

40

## Synthesis of azidophospholipids and labeling of lysophosphatidylcholine acyltransferase from developing soybean cotyledons

A.W. Tumaney and R. Rajasekharan (India)

47

Functional analysis of genes from *Streptomyces griseus* involved in the synthesis of isorenieratene, a carotenoid with aromatic end groups, revealed a novel type of carotenoid desaturase

H. Krügel, P. Krubasik, K. Weber, H.P. Saluz and G. Sandmann (Germany)

57

## Phospholipid transfer protein enhances removal of cellular cholesterol and phospholipids by high-density lipoprotein apolipoproteins

G. Wolfbauer, J.J. Albers and J.F. Oram (USA)

65

Regulation of phosphatidylcholine homeostasis by calcium-independent phospholipase A<sub>2</sub>

S.E. Barbour, A. Kapur and C.L. Deal (USA)

77

## Identification and characterization of the mouse cDNA encoding acyl-CoA: dihydroxyacetone phosphate acyltransferase

R. Ofman, E.M. Hogenhout and R.J.A. Wanders (The Netherlands)

89

## Role of lecithin-cholesterol acyltransferase in the metabolism of oxidized phospholipids in plasma: studies with platelet-activating factor-acetyl hydrolase-deficient plasma

V.S. Subramanian, J. Goyal, M. Miwa, J. Sugatami, M. Akiyama, M. Liu and P.V. Subbaiah (Japan, USA)

95

## The fatty acid distribution in low density lipoprotein in diabetes

J. Prescott, D. Owens, P. Collins, A. Johnson and G. H. Tomkin (Ireland)

110

## Erratum

## Erratum to: 'Bile diversion in rats leads to a decreased plasma concentration of linoleic acid which is not due to decreased net intestinal absorption of dietary linoleic acid'

D.M. Minich, M. Kalivianakis, R. Havinga, H. van Goor, F. Stellaard, R.J. Vonk, F. Kuipers and H.J. Verkade (The Netherlands)

117

## Information for Contributors

vii

## Foreword

L.W. Daniel (USA)

119

## Regulation of phospholipase D

J.H. Exton (USA)

121

## Regulation of phospholipase D by phosphorylation-dependent mechanisms

M.G. Houle and S. Bourgoignie (Canada)

135

## Molecular and biochemical properties and physiological roles of plant phospholipase D

K. Pappan and X. Wang (USA)

151

## Regulation and function of PLDs in yeast

S.A. Rudge and J. Engebrecht (USA)

167

## Mammalian phospholipase D structure and regulation

M.A. Frohman, T.-C. Sung and A.J. Morris (USA)

175

## The PLD superfamily: insights into catalysis

M. Waite (USA)

187

Expression of phospholipase D isoforms in mammalian cells <i>K.E. Meier, T.C. Gibbs, S.M. Knoepp and K.M. Ella (USA)</i>	199	Physical characterization of the stratum corneum of an in vitro human skin equivalent produced by tissue engineering and its comparison with normal human skin by ATR-FTIR spectroscopy and thermal analysis (DSC) <i>R. Pouliot, L. Germain, F.A. Auger, N. Tremblay and J. Juhasz (Canada)</i>	341
Phospholipase D development during differentiation of human promyelocytic leukemic HL60 cells <i>K. Ohguchi, S. Nakashima and Y. Nozawa (Japan)</i>	215	Caco-2 cells and human fetal colon: a comparative analysis of their lipid transport <i>E. Levy, W. Yotov, E.G. Seidman, C. Garofalo, E. Delvin and D. Ménard (Canada)</i>	353
Phospholipase D and membrane traffic <i>D. Jones, C. Morgan and S. Cockcroft (UK)</i>	229	Isolation and characterization of novel neutral glycolipids from <i>Thermoplasma acidophilum</i> <i>I. Uda, A. Sugai, K. Kon, S. Ando, Y.H. Itoh and T. Itoh (Japan)</i>	363
Localization and possible functions of phospholipase D isozymes <i>M. Liscovitch, M. Czarny, G. Fiucci, Y. Lavie and X. Tang (Israel)</i>	245	Microsomal long chain fatty acyl-CoA transacylation: differential effect of sterol carrier protein-2 <i>H. Chao, J.T. Billheimer, A.B. Kier and F. Schroeder (USA)</i>	371
Phospholipase D, tumor promoters, proliferation and prostaglandins <i>L.W. Daniel, V.A. Sciorra and S. Ghosh (USA)</i>	265	Salicylhydroxamic acid inhibits $\Delta 6$ desaturation in the microalga <i>Porphyridium cruentum</i> <i>I. Khozin-Goldberg, C. Bigogno and Z. Cohen (Israel)</i>	384
A novel protein kinase target for the lipid second messenger phosphatidic acid <i>L.C. McPhail, K.A. Waite, D.S. Regier, J.B. Nixon, D. Qualliotine-Mann, W.-X. Zhang, R. Wallin and S. Sergeant (USA)</i>	277	Regulation by P2 agonists of the intracellular calcium concentration in epithelial cells freshly isolated from rat trachea <i>A. Marino, Y. Rodrig, M. Métioui, L. Lagneaux, E. Alzola, M. Fernández, D.J. Fogarty, C. Matute, A. Moran and J.P. Dehaye (Belgium, Israel, Spain)</i>	395
Phospholipase D in cellular senescence <i>M.E. Venable and L.M. Obeid (USA)</i>	291	Purification and characterization of membrane-bound prostaglandin E synthase from bovine heart <i>K. Watanabe, K. Kurihara and T. Suzuki (Japan)</i>	406
Structural organization of mammalian lipid phosphate phosphatases: implications for signal transduction <i>D.W. Waggoner, J. Xu, I. Singh, R. Jasinska, Q.-X. Zhang and D.N. Brindley (Canada, USA)</i>	299		
<i>Information for Contributors</i>	vii	<i>Short sequence-paper</i>	
<i>Review</i>		Rat <i>sn</i> -glycerol-3-phosphate acyltransferase: molecular cloning and characterization of the cDNA and expressed protein <i>B. Ganesh Bhat, P. Wang, J.-H. Kim, T.M. Black, T.M. Lewin, F.T. Fiedorek Jr. and R.A. Coleman (USA)</i>	415
Lipid translocation across the plasma membrane of mammalian cells <i>E.M. Bevers, P. Comfurius, D.W.C. Dekkers and R.F.A. Zwaal (The Netherlands)</i>	317	<i>Cumulative Contents, Vol. 1439</i>	424
<i>Regular papers</i>		<i>Author Index</i>	427
Antioxidant protection of lipoproteins containing estrogens: in vitro evidence for low- and high-density lipoproteins as estrogen carriers <i>Q.-H. Meng, A. Höckerstedt, S. Heinonen, K. Wähälä, H. Adlercreutz and M.J. Tikkanen (Finland)</i>	331		

